WHAT IS CLAIMED IS:

- An actuator assembly for use in a data storage device comprising: an actuator arm configured to pivot about a z axis comprising: a fantail portion;
 - an arm portion offset from the fantail portion in a direction parallel to the z axis; and
 - a voice coil motor coil supported by the fantail portion and lying partially beneath the arm portion and at least partially in a plane parallel with the arm portion.
- 2. The actuator assembly of claim 1 wherein arm portion defines a first plane and the fantail portion defines a second plane, wherein the second plane and the plane of the voice coil motor coil are the same.
- 3. The actuator assembly of claim 2 wherein the first plane is approximately parallel to the second plane.
- 4. The actuator assembly of claim 1 wherein the arm portion further comprises a step portion connected to the fantail portion.
- 5. The actuator assembly of claim 4 wherein the step portion is curved.
- 6. The actuator assembly of claim 1 wherein the fantail portion comprises two side portions each having an inner surface supporting the voice coil motor coil and extending distally from the arm portion.
- 7. The actuator assembly of claim 6 further comprising a supporting layer between each of the inner surfaces and the voice coil motor coil, an

affixing layer between the voice coil motor coil and the arm portion, and a vertical layer between the voice coil motor coil and a pivot cartridge.

- 8. The actuator assembly of claim 7 wherein the supporting layers, the affixing layer, and the vertical layer comprise epoxy.
- A disc drive comprising:

 a storage disc; and
 the actuator assembly of claim 1 positioned adjacent the storage
- 10. An actuator assembly for use in a data storage device comprising: an arm portion; and means for supporting a voice coil motor coil at least partially beneath the arm portion.
- 11. The actuator assembly of claim 10 wherein the arm portion defines a first plane and the means for supporting the voice coil motor coil defines a second plane.
- 12. The actuator assembly of claim 11 wherein the first plane is approximately parallel to the second plane.
- 13. A method of manufacturing an actuator assembly for use in a storage device comprising the steps of:

providing an actuator arm configured to pivot about a z axis, the actuator arm

comprising an arm portion and a fantail portion offset from the arm portion in a direction parallel to the z axis; and

- providing a voice coil motor coil supported by the fantail portion, the voice coil motor coil lying at least partially beneath the arm portion and at least partially in a plane parallel to the arm portion.
- 14. The method of claim 13 wherein the step of providing an actuator arm comprises forming the actuator arm by stamping.
- 15. The method of claim 13 wherein providing an actuator arm further comprises providing an arm portion defining a first plane and a fantail portion defining a second plane, wherein the second plane and the plane of the voice coil motor coil are the same.
- 16. The method of claim 15 wherein the first plane is approximately parallel to the second plane.
- 17. The method of claim 13 further comprising affixing the voice coil motor coil to the storage device.
- 18. The method of claim 17 wherein the affixing comprises providing an epoxy layer between the voice coil motor and each of the fantail portion, the arm portion, and a pivot cartridge.
- 19. A method of manufacturing a disc drive comprising the steps of: providing a storage disc; providing an actuator assembly manufactured by the method of claim 13 adjacent the storage disc.

20. The method of claim 19 wherein providing an actuator assembly further comprises:

providing the actuator assembly pivoting on a pivot mounted to a base; and

optimizing a position of a magnet relative to a pivot cartridge, the magnet underlying the voice coil motor coil.